TEAC

SERVICE MANUAL



TEAC CORPORATION

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MA1000E100

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GENERAL INTRODUCTION

The TEAC AS-100 is a newly designed stereo integrated amplifier of the highest quality utilizing the latest circuit theory in its manufacture. It's special features include a differential type power amplifier unit which is direct coupled throughout all stages, and an electronic protective circuit for the purpose of preventing speaker damage from any malfunction.

This Service Manual is intended for reference and assistance to service engineers who maintain and repair the AS-100.

The Model AS-100 amplifier is thoroughly inspected and adjusted, mechanically and electrically, prior to shipment from the factory and is thus guaranteed to give perfect performance on opening the shipping carton. Although this amplifier utilizes unique circuits, quick repair is made possible by refering to this manual. The amplifier is designed for easy servicing.

This manual avoids extensive explanations and instead presents all printed circuit board patterns, circuit diagrams and ample photos for quick comprehension of parts layout. In the PC patterns, external circuits and their connecting points at each board are included for easy circuit tracing. Furthermore, codes and numbers are clearly indicated in the parts list and photos of parts layout for convenience in ordering parts.

INDEX

SPECIFICATIONS

CHARACTERISTICS CURVES

PARTS LAYOUT AND PARTS LIST

FRONT PANEL REMOVAL

FRONT CHASSIS

MAIN CHASSIS

BACK PANEL

PARTS LIST

PRINTED CIRCUIT BOARD AND PARTS LIST

PHONO AMPLIFIER

PARTS LIST

PC BOARD ASSY

CONTROL AMPLIFIER

PARTS LIST

PC BOARD ASSY

CONTROL SWITCH

PARTS LIST

PC BOARD ASSY

FILTER SWITCH

PARTS LIST

PC BOARD ASSY

PROTECTIVE CIRCUIT

PARTS LIST

PC BOARD ASSY

POWER AMPLIFIER ASSY

IDLE CURRENT ADJUSTMENT PROCEDURE

PARTS LIST

PC BOARD ASSY

POWER AMPLIFIER REPAIRS

SCHEMATIC DIAGRAM

OVERALL CIRCUIT DIAGRAM

PHONO AMPLIFIER

CONTROL AMPLIFIER

CONTROL SWITCH

FILTER SWITCH

PROTECTIVE CIRCUIT

POWER AMPLIFIER

DC TEST VOLTAGES CHART

TRANSISTORS

INTEGRATED CIRCUIT

MANUAL CHANGES

PARTS ORDERING INFORMATION

SPECIFICATIONS

Type All silicone transistor integrated amplifier

(26 silicone transistors, 2 ICs, 2 thyristors,

9 diodes)

Circuit Differential quasi-complementry SEPP

POWER AMPLIFIER SECTION

Rated power 60W(both channel operate THD 0.2% 8 ohms load)

40W/40W(each channel operate THD 0.2% 8 ohms load)

Harmonic distortion below 0.2% rated power

below 0.1% 0.1W

IM distortion below 0.2% rated power

Power bandwidth 10 - 40,000Hz -3dB

Frequency response 5 - 200,000Hz+0, -2dB at 1W

Signal to noise ratio better than 90dB

Residual system noise below 0.6mV

Input sensitivity 1V for rated power

Input impedance 50,000 ohms
Output load impedance 4 - 16 ohms

PREAMPLIFIER SECTION

Inputs Phono-1, 2: 2mV (input impedance 50,000 ohms)

Tuner: 150mV (input impedance 50,000 ohms)
AUX-1, 2: 150mV (input impedance 50,000 ohms)

Tape deck play: 150mV (input impedance 60,000 ohms)

Outputs Output voltage: 1V at rated input

Record out: 150mV at rated input

Frequency response 10 - 50,000Hz 1dB

Signal to noise ratio Phono inputs: 70dB

AUX inputs: 80dB

Tone control 100Hz: 10dB, 10,000Hz: 10dB

Loudness control 50Hz: +7dB, 10,000Hz: +4dB

Filter Low cut: 100Hz, 6dB/oct

High cut: 8,000Hz, 6dB/oct

Power requirements 100/117/220/240V AC 50/60Hz (US Model is 117V only)

Power consumption 15W at no signal

160W at rated power

AC outlet Switched: 200W max.

Unswitched: 200W max.

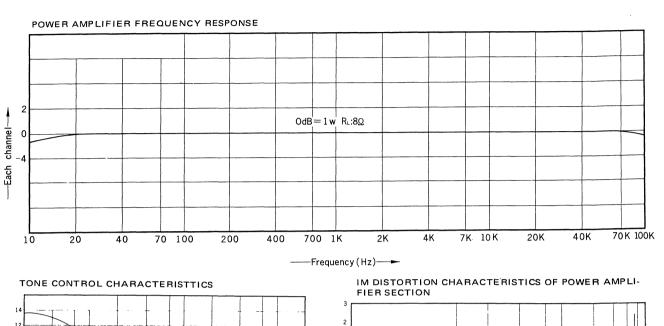
Dimensions $141(H) \times 410(W) \times 328(D)$ mm

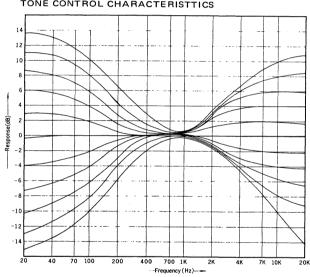
5-9/16"(H) x 16-1/8"(W) x 12-15/16"(D)

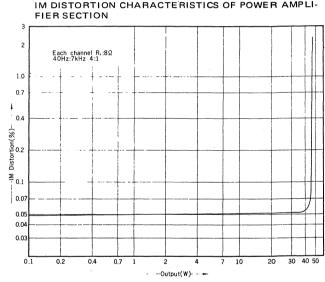
Weight 10kg, 22 lbs, net

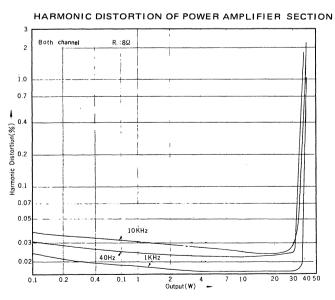
Features and specifications subject to change without notice.

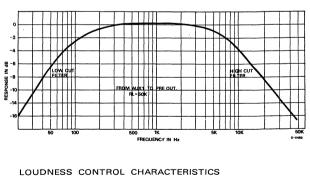
CHARACTERISTICS CURVES



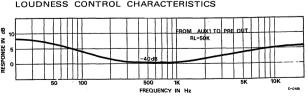








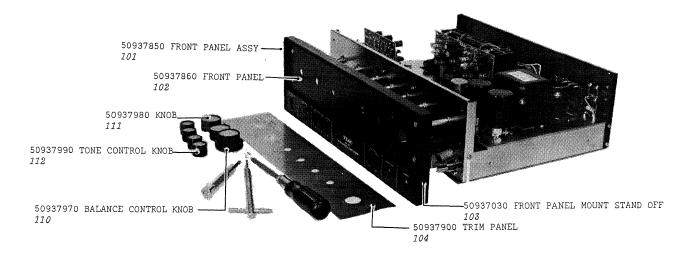
FILTER CHARACTERISTICS



PARTS LAYOUT AND PARTS LIST

T334

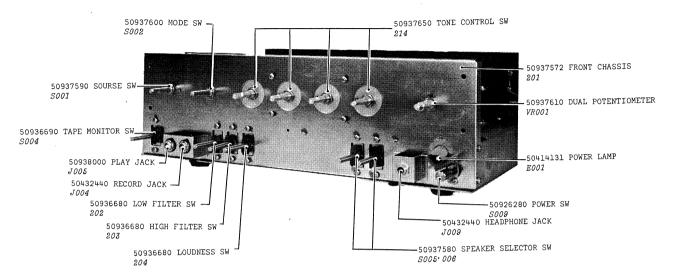
FRONT PANEL ASSY



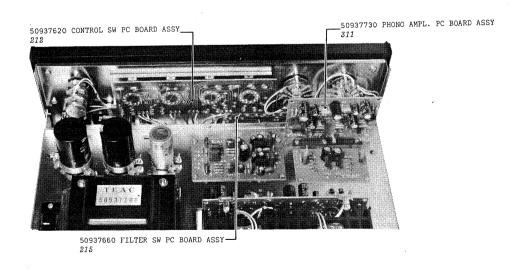
FRONT PANEL REMOVAL

REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
101	50937850	Panel Assy, Front		
102	50937860	Panel, Front		
103	50937030	Stand Off, Front Panel Mount, x 4		
104	50937900	Panel, Trim		
105	50937260	Trim Sash, x 2		
106	50928730	Escutcheon, Power Push Button		
107	50937940	Escutcheon, Phone Jack, x 3		
108	50937070	Escutcheon, Lever SW Knob, x 6		
109	50937960	Lens, Lamp, Small		
110	50937970	Knob, Balance Control		
111	50937980	Knob, Volume, x 3		
112	50937990	Knob, Tone Control, x 4		

FRONT CHASSIS



SWITCHES AND POTENTIOMETERS

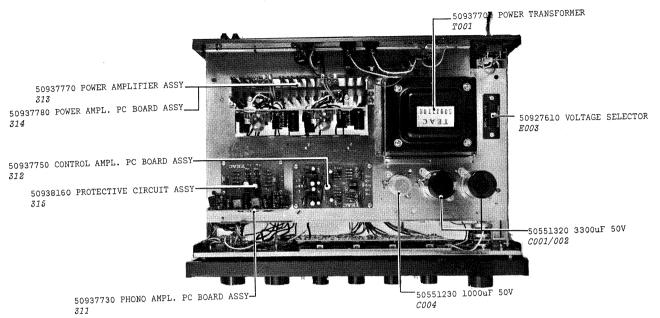


VIEW FROM ABOVE REAR

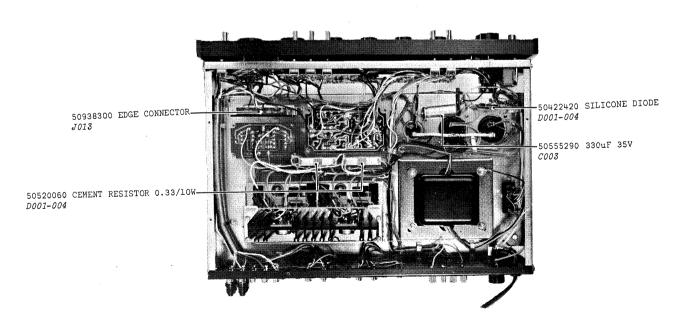
FRONT CHASSIS

REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
 2 <i>01</i>	50937572	Chassis, Front		
202	50936680	SW, Low Filter, Lever		
203	50936680	SW, High Filter, Lever		
204	50936680	SW, Loudness, Lever		
	50921152	Tube, Lamp		
2 <i>06</i>	50415030	Socket, Lamp		
207	50938190	Pipe, B, Shield		
208	50937240	Clamp, Cable		
209	50937220	Lever Knob Sheet, x 6		
210	50937110	Knob, Lever SW, x 6		
211	50937270	Button, Power SW		1
212	50937620	PC Board Assy, Control SW		
2 <i>13</i>	50937630	Bracket, Control SW Mount		
214	50937650	SW, Tone Control, x 4		
215	50937660	PC Board Assy, Filter SW	4	-
E001	50414131	Lamp, Power ON Indicator		
E004	50529060	CR Unit, Spark-Killer 0.033uF+120 ohm		
J004	50432440	Jack, Record 3 cond		
J005	50938000	Jack, Play 3 cond, with SW		
J009	50432440	Jack, Headphone 3 cond		
R009-012	50513970	Resistor, Carbon 4.7k 1/4W 10%		
R011 • 012	50527050	Resistor, Metal Oxide Film 470 ohm 1W 10%		
S001	50937590	SW, Sourse		
S002	50937600	SW, Mode		-
S004	50936690	SW, Tape Monitor Lever		
S005·006	50937580	SW, Speaker Selector, Lever		
S009	50926280	SW, Power, Push Button		
VR001	50937610	Potentiometer, Dual,		
		Volume & Balance		
				1

MAIN CHASSIS



TOP VIEW

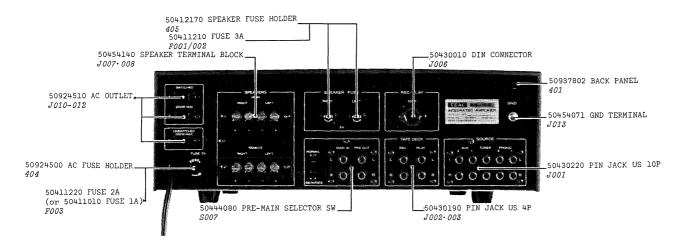


BOTTOM VIEW

MAIN CHASSIS

REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
301	50937680	Chassis, Main		
302	50937690	Pipe, A, Shield		
303	50452060	Terminal Strip, 1L2P, x 2		
304	50452090	Terminal Strip, 1L4P, x 2		
<i>305</i>	50923780	Grommet, Cable, x 2		
<i>306</i>	50937710	Cover, Bottom		
307	50283830	Mount Foot, x 4		
308	50938200	Cushion, Phono Amplifier		
309	50937720	Cover, Top		•
310	50937240	Clamp, Cable, x 7		
311	50937730	PC Board Assy, Phono Ampl.		
312	50937750	PC Board Assy, Control Ampl.		
313	50937770	Power Amplifier Assy		
314	50937780	PC Board Assy, Power Ampl.		
<i>315</i>	50938160	PC Board Assy, Protective Circuit		
C001/002	50551220	Cap., Electrolytic 3300/50V	50551320	
C003	50555290	Cap., Electrolytic 330/35V		
C004	50551230	Cap., Electrolytic 1000/50V	50551310	
D001-004	50422420	Diode, Silicone IS-1072		
D 005	50422430	Diode, Silicone VO6C		
E003	50927610	Voltage Selector, AC Power	·	
J013	50938300	Connector, Edge 14P Phono Ampl. Receptacle		
R015/016	50520060	Resistor, Cement 0.33/10W 20%		
R017	50527060	Resistor, Metal Oxide Film 1k/1W 10%	·	
T001	50937700	Transformer, Power		

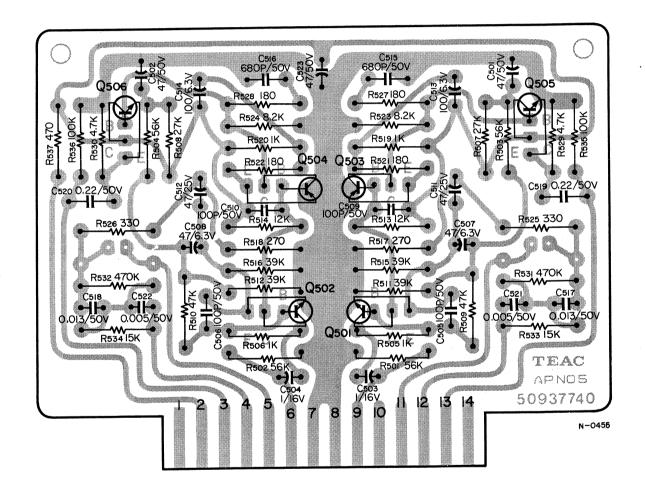
BACK PANEL



REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
401	50937802	Panel, Back		
402	50271670	Grommet, AC Cord		
403	50471651	Cord, AC		
404	50924500	Fuse Holder, AC		
405	50412170	Fuse Holder, Speaker, x 2		
406	50452500	Terminal Strip, 1L4P Small		
407	50430171	Short Pin Plug, x 4		
C005	50541110	Cap., Oil-Filled 0.0047/450V		
F001/002	50411210	Fuse, 3A, x 2		
F003	50411220	Fuse, 2A (AC 100, 117V only)		1
F003	50411010	Fuse, 1A (AC 220, 240V only)		
J001	50430220	Pin Jack, US 10P		
J002 • 003	50430190	Pin Jack, US 4P, x 2		
J006	50430010	Connector, DIN		
J007 • 008	50454140	Terminal Block, Speaker 4P		
J010-012	50924510	Receptacle, AC Outlet		
J013	50454071	GND Terminal		•
R001/002	50513570	Resistor, Carbon 10k 1/4W 10%		
R003/004	50518910	Resistor, Carbon 390k 1/4W 10%		
R005/006	50513700	Resistor, Carbon 100k 1/4W 10%		
S007	50444080	SW, Slide, Pre-Main Selector		

PRINTED CIRCUIT BORD AND PARTS LIST AS-100

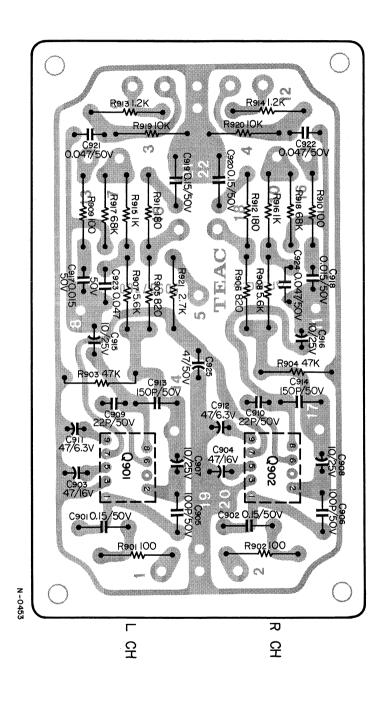
PHONO AMPLIFIER



PHONO AMPLIFIER

CIRCUIT REF NO.	PARTS NO.	DESCRIPTION			1ST	2ND
	50937730	PC Board Assy	, Phono			
	50937740	PC Board, Pho	no Amplifier			
	TRANSISTORS					
Q501/502	50424100	2SC 1000-GR				
Q503/504 Q505/506	50424110 50423500	2SA 493-GR 2SC 734-Y				
	CARBON RESIS	STORS				
	RS IN OHM, 10% LESS OTHERWISE					
R501/502	50513990	56k				
R503/504 R505/506	50513990 50513430	56k 1k				
R507/508	50513860	27k				
R509/510	50513870	47k				
R511/512	50519440	39k				
R513/514	50513580	12k				
R515/516	50519440	39k				
R517/518	50519280	270				
R519/520	50513430	1k				
R521/522	50518770	180				
R523/524	50518830	8.2k				
R525/526	50519290	330 180				
R527/528 R529/530	50518770 50513970	4.7k				
R531/532	50518370	470k				
R533/534	50513590	15k				
R535/536	50513700	100k				
R537	50519600	470				
	CAPACITORS					
ALL CAPACIT OTHERWISE N	ORS IN MICRO FA	ARADS UNLESS				
C501/502	50554580	Electrolytic	47/150V			
C503/504	50546180	Tantalum 1	1/16V			
C505/506	50543400	Dipped Mica	100p/50V/10%			
C507/508	50554030	Electrolytic	47/6.3V			
C509/510	50543400	Dipped Mica	100p/50V/10%			1
C511/512	50554020	Electrolytic Electrolytic	47/25V			
C513/514 C515/516	50554230 50543430	Dipped Mica	100/6.3V 680p/50V/10%			
C515/516 C517/518	50547990	Mylar	0.013/50V/10%			
C517/518	50548660	Mylar	0.013/30V/3% 0.022/50V/10%			
C521/522	50548050	Mylar	0.005/50V/10%	•		
C523	50554580	Electrolytic	47/50V			
		= - 3	,			ļ

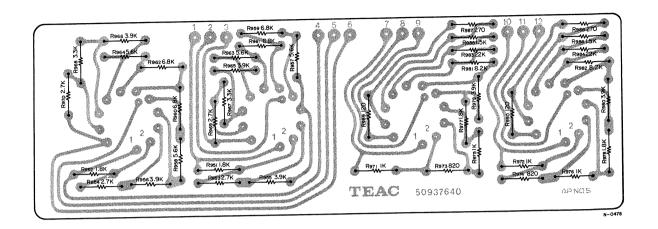
CONTROL AMPLIFIER



CONTROL AMPLIFIER

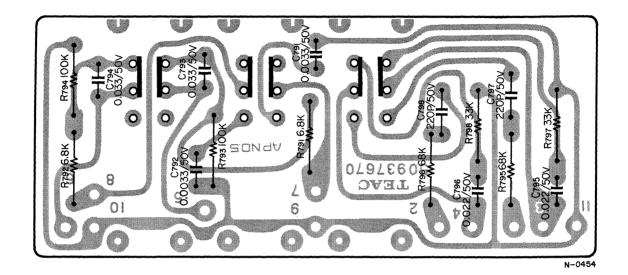
CIRCUIT REF NO.	PARTS NO.	DESCRIPTION		1ST	2ND
	50937750	PC Board Ass	y, Control		
	50937760	PC Board, Co	ntrol Amplifier	,	
	INTEGRATED (CIRCUIT			
Q901/902	50427080 CARBON RESIS	IC, 42708 STORS			
	RS IN OHM, 10% ESS OTHERWISE				
R901/902 R903/904 R905/906 R907/908 R909/910 R911/912 R913/914 R915/916 R917/918 R919/920	50513300 50513870 50518800 50513880 50513300 50518770 50513440 50513430 50519190 50513570 50518050	100k 47k 820 5.6k 100 180 1.2k 1k 68k 10k 2.7k			
ALL CAPACITO	ORS IN MICRO FA	ARADS UNLESS			
C901/902 C903/904 C905/906 C907/908 C909/910 C911/912 C913/914 C915/916 C917/918 C919/920 C921/922 C923/924	50548312 50554430 505543400 50554040 5054330 50554030 50554040 505548420 50548310 50548270 50548270	Mylar Electrolytic Dipped Mica Electrolytic Dipped Mica Electrolytic Dipped Mica Electrolytic Mylar Mylar Mylar Mylar Mylar	100p/50V/10%		

CONTROL SWITCH



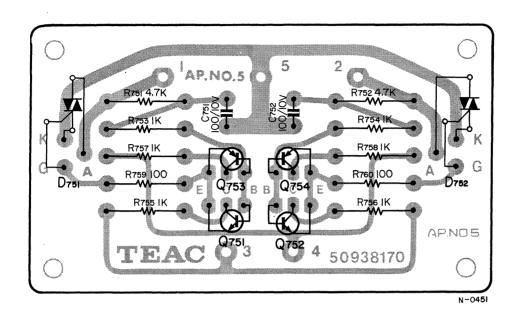
CIRCUIT REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
	50937620	PC Board Assy, Control SW		
	50937640	PC Board, Control SW		
	50937630	Bracket, Control SW Mount		
	50937650	SW, Tone Control, x 4		
	CARBON RESI	STORS		
ATT DECTOR	DRS IN OHM, 10%			
ALL RESISION	ILESS OTHERWISE	NOTED.		
1/1 ///11				
R951/952	50519590	1.8k		
R953/954	50518050	2.7k		
R955/956	50513940	3.9k		
R957/958	50513880	5.6k		
R959/960	50519230	6.8k		
R961/962	50519230	6.8k		
R963/964	50513880	5.6k		
R965/966	50513940	3.9k		
R967/968	50513960	3.3k		
R969/970	50518050	2.7k		
R971/972	50513430	1k		
R973/974	50518800	820	,	
R975/976	50513430	1k		
R977/978	50519590	1.8k		
R979/980	50513940	3.9k		
R981/982	50518830	8.2k		
R983/984	50513610	22k		
R985/986	50513450	1.5k		
R987/988	50519280	270		
R989/990	50513310	120		1

FILTER SWITCH



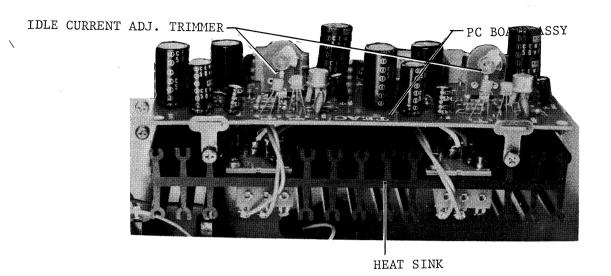
CIRCUIT REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
	50937660	PC Board Assy, Filter SW		
	50937670	PC Board, Filter SW		
	CARBON RESIS	STORS		
R791/792 R793/794 R795/796 R797/798	50519230 50513700 50519190 50519170	and the second s		
	CAPACITORS			
C791/792 C793/794 C795/796 C797/798	50548300 50548240 50548290 50543420	Mylar 0.0033uF 50V 10% Mylar 0.033uF 50V 10% Mylar 0.022uF 50V 10% Dipped Mica 220pF 50V 10%		

PROTECTIVE CIRCUIT



CIRCUIT REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
	50938160	PC Board Assy, Protective Circuit		
	50938170	PC Board, Protective Circuit		
	SILICONE TRA	ANSISTORS		
Q751/752 Q753/754	50423500 50423531	2SC 734-Y 2SA 561-Y		
	THYRISTOR			
D751/752	50428020	Triac SM2D41		
	CARBON RESI	STORS		
R751/752 R753/754 R755/756 R757/758 R759/760	50513970 50513430 50513430 50513430 50513300	1k ohm 1/4W 10% 1k ohm 1/4W 10%		
	BIPOLAR CAP	ACITORS		
C751/752	50549230	100uF 10V		. •
			I .	i

POWER AMPLIFIER ASSEMBLY



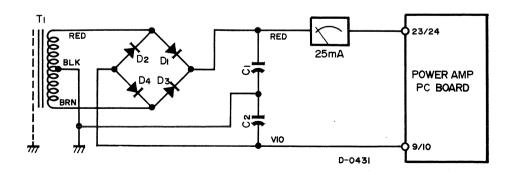
IDLE CURRENT ADJUSTMENT PROCEDURE

CURRENT ADJUSTING

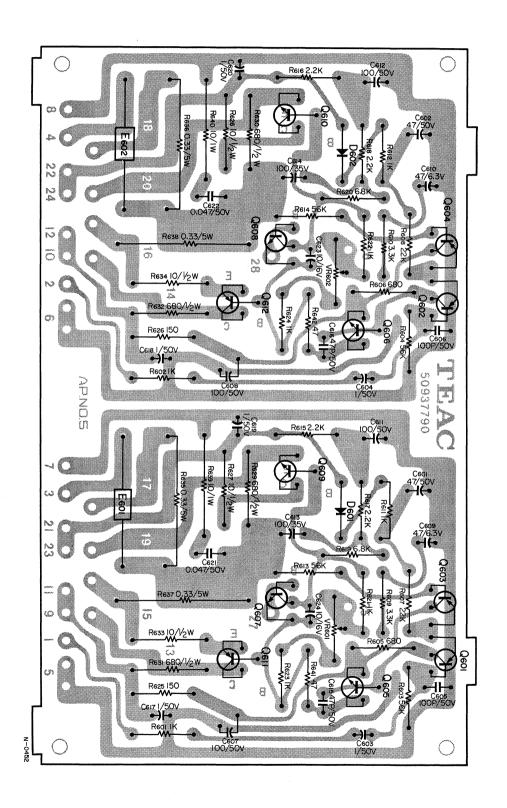
The following procedure must be carried out on each channel with the speaker terminals open, and with no signal applied to the input. A 100mA or higher meter is inserted between the power amplifier PC board and DC power supply line, and the trimmer resistor (VR601/602) on the PC board adjusted to obtain a 25mA reading. First set the trimmer fully counterclockwise and turn this until the meter indicates 25mA.

After adjusting one channel, turn off the AC power, connect the meter to other channel, apply the AC power and adjust as above. Special attention is required as follows.

- 1. Remove AC power to the amplifier before connecting or removing the meter from the circuit. Failure to do so may result in damage to transistors.
- 2. Make small adjustments to the trimmer resistor, do not move in large increments.



POWER AMPLIFIER



POWER AMPLIFIER

CIRCUIT REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
	50937770	Power Amplifier Assy		
	50937780	PC Board Assy, Power Amplifier		
	50937790	PC Board, Power Amplifier		
E601/602	50920930	RL Unit		
	50928680	Heat Sink, C, Power Amplifier		
	50938070	Bracket, L, Heat Sink Mount		
	50938080	Bracket, R, Heat Sink Mount		
	50928320	Bracket, Power Ampl. PC Board Assy Mount		
	50434720	Socket, Transistor		
	50452550	Terminal Strip, 1L2P Small		
	SILICONE TR	ANSISTORS		
Q601/602	50423531	2SA 561(Y)	*2SA493GR	
Q603/604	50423531	2SA 561(Y)	*2SA493GR	
Q605/606	50423570	2SC 497(Y)		
Q607/608	50423380	2SC 373		
	50423570	2SC 497(Y) ·		
Q611/612	50423650	2SA 497(Y)		
Q613/614	50426040	Power, 2SC 1030 (B)		
Q615/616	50426040	Power, 2SC 1030 (B)		
	SILICONE DI	ODES		
D601/602	50422430	V06C		
D603/604	50422440	S3016(R)		

NOTE

*SERIAL NO. 0271 AND AFTER

red, 50424310 orange, 50424320 green, 50424330

See Power Amplifier Repairs, step 1 on page 21.

CONTINUE

POWER AMPLIFIER (CONTINUED)

K603/604 50513990 Carbon, 56k *50519590 1.8k K607/608 50513610 Carbon, 680 *50513990 56k K607/608 50513610 Carbon, 22k K609/610 50513960 Carbon, 3.3k K611/612 50513400 Carbon, 1k K613/616 50513990 Carbon, 2.2k K617/618 K615/616 50513960 Carbon, 2.2k K617/618 K617/62 K617/62 <th>CIRCUIT REF NO.</th> <th>PARTS NO.</th> <th>DESCRIPTION</th> <th>1ST</th> <th>2ND</th>	CIRCUIT REF NO.	PARTS NO.	DESCRIPTION	1ST	2ND
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POWER AMPLIFIER REPAIRS

A random DC voltage will appear at the speaker terminals if the power amplifier breaks down. Any load connected here, such as a speaker, may be burned out or output stage transistors damaged by the excess current which will flow. Ideally, or when the output stage is perfectly balanced, there should be no DC voltage across the speaker terminals, but permissible DC voltage is between 0 and $\pm 100 \text{mV}$. If the voltage is beyond this limit, the DC balance must be restored to normal. In most cases, DC unbalance is due to transistor breakdown. This is because the power amplifying stage is a direct coupled amplifier. In the following description, the practical transistors repairs are described in order of susceptibility to breakdown. Thus, the transistors must be checked in this order and defective ones replaced, after which the no-load voltage at the speaker terminal is checked and the above procedure repeated until this voltage is reduced below the specified range. When conducting these tests, it is advisable not to connect any load to the speaker terminals so as to avoid over-loading and subsequent breakdown of transistors should the final stage still be imbalanced. After completing the repairs, adjust idle current as shown on page 17.

- 1. Q601.603 or Q602.604

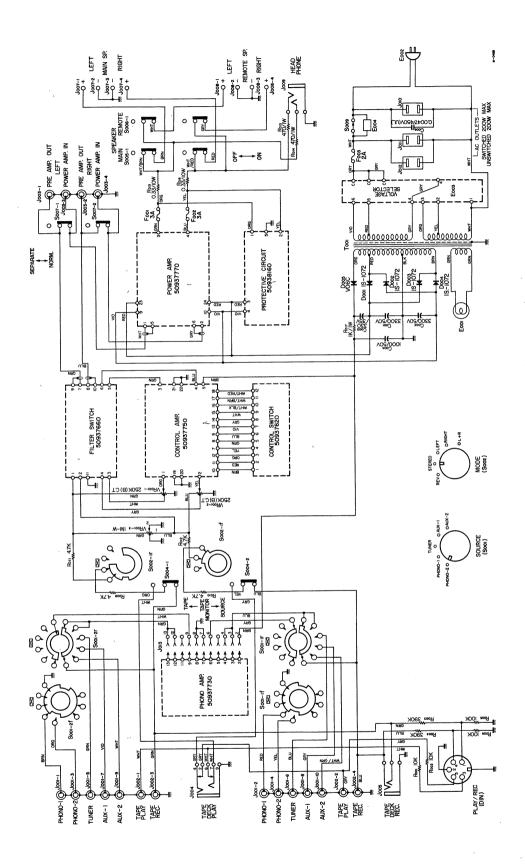
 If a random voltage at the speaker terminals exceeds the permissible range (0 to ±100mV) for either channel, transistors Q601.603 or Q602.604 must be changed.

 These transistors must be replaced with matched pairs of transistors having the same hFE value.

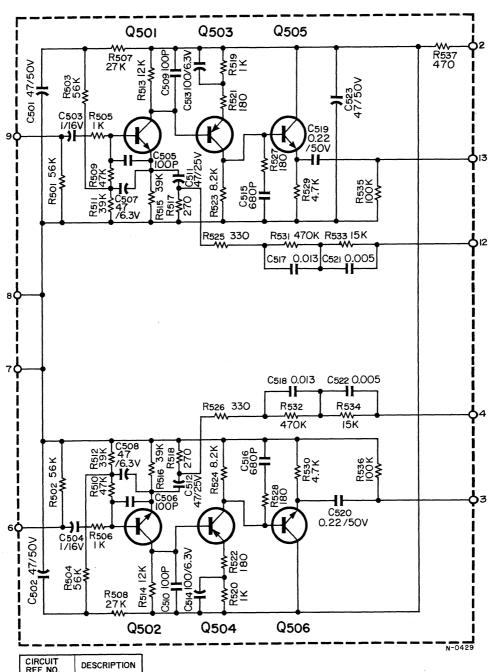
 Transistors are paired and color coded by gain factor(red, orange, green). Replace transistor pairs with a pair bearing the same color code as the originals. Color code will be found on top of the transistor case.
- 2. Q605 or Q606
- 3. Q609 or Q610
- 4. If after performing steps 1, 2 and 3 the voltage at speaker terminals is still excessive, replace all remaining transistors at the same time.
- 5. If speaker fuse blows, the most common causes are speaker leads shorted or DC voltage imbalance in power amplifier stages. Check speaker leads thoroughly before performing the above procedures.
- 6. Low output and increased distortion when volume is increased may be caused by thyristor(D751/752) failure in the electronic protective circuit. In this case, setting volume control to maximum will cause speaker fuse to blow.

SCHEMATIC DIAGRAM
AS-100

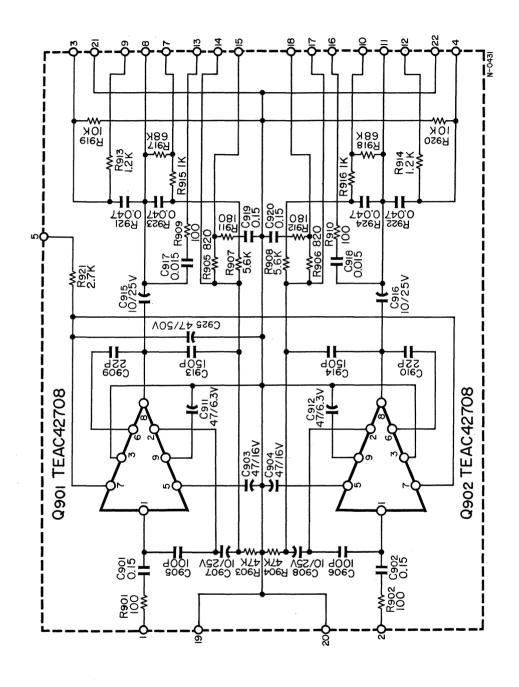
Specifications and components subject to change without notice.



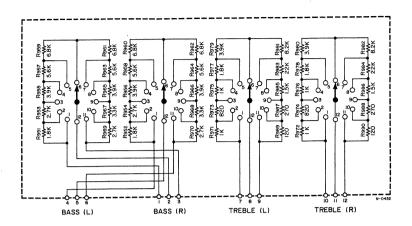
PHONO AMPLIFIER



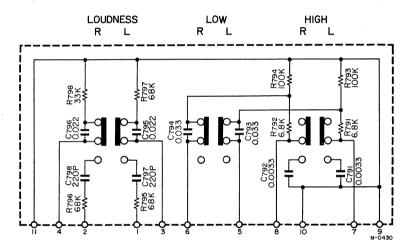
CIRCUIT REF NO.	DESCRIPTION
Q501/502	2SCI000-GR
Q503/504	2SA493-GR
Q505/506	2SC734-Y



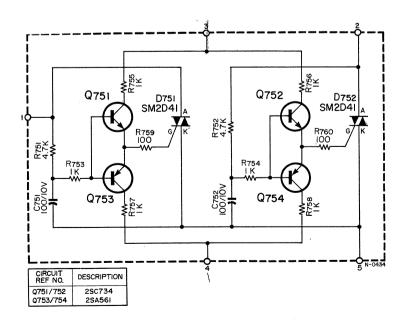
CONTROL SWITCH

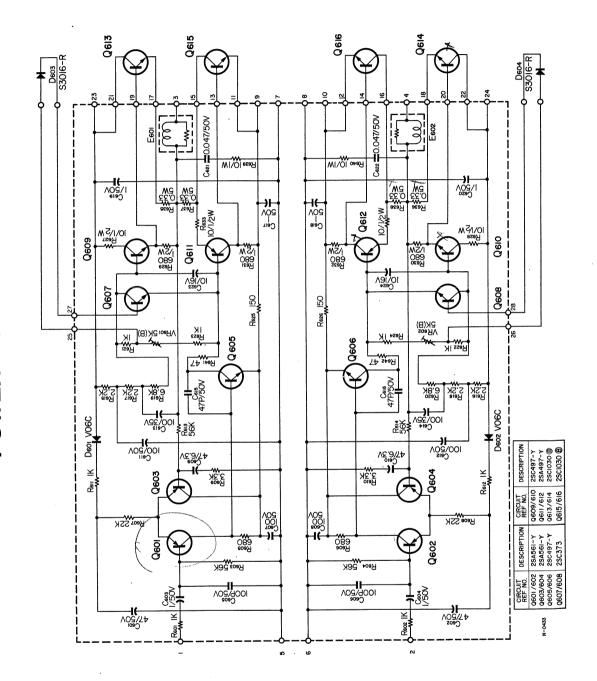


FILTER SWITCH



PROTECTIVE CIRCUIT





1

DC TEST VOLTAGES CHART

TRANSISTORS

TRANSISTOR	EMITTER	BASE	COLLECTOR
Q501/502 (2SC 1000-GR)	+11.3	+11.8	+33.8
Q503/504 (2SA 493-GR)	+34.6	+33.8	+19.2
Q505/506 (2SC 734-Y)	+18.6	+19.2	+37.4
Q751/752 (2SC 734-Y)	0	0	+38.2
Q753/754 (2SA 561-Y)	0	0	-38.3
Q601/602 (2SA 561-Y)*	+0.82	+0.219	-37.0
Q603/604 (2SA 561-Y)*	+0.82	+0.235	-37.6
Q605/606 (2SC 497-Y)*	-37.6	-37.0	-0.719
Q6Q7/608 (2SC 373)*	-0.569	+0.091	+1.08
Q609/610 (2SC 497-Y)*	+0.570	+1.08	+38.2
Q611/612 (2SC 497-Y)*	-0.03	-0.569	-37.7
Q613/614 (2SC 1030-B)*	-0.007	+0.570	+38.2
Q615/616 (2SC 1030-B)*	-38.2	-37.7	-0.002

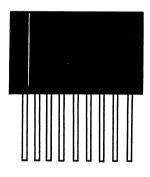
 $[\]star$ Power amplifier transistor

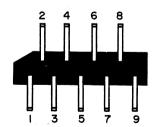
INTEGRATED CIRCUIT (Q901/902)

TERMINAL NO.	VOLTAGE
1	+0.56
2	+0.057
3	0
4	
5	+8.28
6	+3.41
7	+30.4
8	+18.3
9	+2.87

NOTE

- 'All voltages measured with a VTVM
 (vacuum tube voltmeter) at no signal.
- ·Power amplifier transistors measured at no signal and 8 ohm load at speaker terminals.
- ·Test voltages are average values.





D 0424

IC APPEARANCE

MANUAL CHANGES

Change notices, recommended modifications etc. will be issued for the models in this manual, when appropriate. This sheet is in loose leaf form and should be filed behind this page for convenient reference.

PARTS ORDERING INFORMATION

Replacement parts are available through your nearest TEAC dealer or directly from the TEAC office.

Changes are constantly being made to make TEAC products better and more reliable.

Therefore, when ordering parts, always include the following information:

MODEL REF. NO.

PARTS NO.

DESCRIPTION